



963311

October 15, 2020

Reference No. 11208393-201

Mr. Timothy D. Hoffman
Dinsmore & Shohl
Fifth Third Center
1 S. Main St. Suite 1300
Dayton, Ohio 45402

Mr. Jeff Pedro
SIM Trainer
2031 Dryden Road
Moraine, Ohio 45439

Mr. Mark Fornes
Mark Fornes Realty Inc.
2080 Byers Road
Miamisburg, Ohio 45342

Dear Messrs. Hoffman, Pedro, and Fornes:

**Re: Summary of Vapor Intrusion Sampling Results
SIM Trainer – Building 15
South Dayton Dump and Landfill Site, Moraine, Ohio**

GHD prepared this letter to inform you of the results of the vapor intrusion (VI) sampling completed at the subject property (2031 Dryden Road) in 2020. VI is the migration of volatile chemicals from the subsurface into overlying buildings. VI is a potential concern at any building located near soil, groundwater, or soil vapor containing solvent - or petroleum-related compounds that may volatilize. In 2012, GHD began VI studies in the area as part of the investigation of the South Dayton Dump and Landfill (SDDL) Site. GHD is conducting this work on behalf of the companies that have responded to United States Environmental Protection Agency (USEPA) requests to conduct Remedial Investigation (RI) and VI studies associated with the Site (Respondents). USEPA is directing and overseeing these projects.

Based on the results of the VI studies performed in the area, a sub-slab depressurization system (SSDS) was installed in your building and has been operating since 2013. The SSDS withdraws a small amount of air from beneath the building to create a negative pressure so that vapors do not migrate into the building (similar to a radon system in a home). The monitoring program includes collection of sub-slab (SS) soil gas samples (from probes installed under the building floor) and indoor air (IA) samples at multiple locations for laboratory analysis of volatile organic compounds (VOCs). The sampling serves to document the concentrations of VOCs beneath the building and to demonstrate that air within the building meets VI standards set by the State of Ohio. Vacuum measurements from beneath the building floor slab are also regularly collected to demonstrate that the SSDS is working properly. The SS and IA sample locations within your building (designated as Building 15) are shown on Figure 1.

2020 Sampling Results

During the most recent sampling event conducted on July 15, 2020, GHD collected two SS samples, two IA samples, and one outdoor ambient air sample. The 2020 analytical results are attached in Table 1 (indicated with blue highlight), along with results for all samples collected since 2012. Table 1 also shows

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the screening levels established by the Ohio Department of Health (ODH), which are used for comparison to the detected concentrations in the samples.

As shown in Table 1, some VOCs were detected in the July 2020 samples, with two IA samples containing benzene at concentrations greater than the ODH IA screening level. The July 2020 IA concentrations of benzene in samples from IA-15-C and IA-15-F were the second consecutive year of benzene IA exceedances in Building 15. The concentrations of benzene in the SS samples were less than the ODH SS screening levels, indicating that the IA benzene concentrations are not due to VI but instead due to presence in ambient air. The SS concentrations were less than the ODH SS screening levels.

Additional Information

Please note that the SS screening levels shown in Table 1 are calculated based on an attenuation factor (AF) to account for the mixing and ventilation that occurs when vapors enter the IA¹. For this reason, an exceedance of these values is used as an indicator of potential impact to IA, which requires further assessment. The SSDS in Building 15 was installed and operated in response to the VOC detections in both SS and IA samples collected in 2012.

As part of the monitoring program, GHD measured vacuum readings at each SS soil vapor probe locations to determine if the SSDS is depressurizing the SS zone beneath the building. A vacuum reading of negative 0.004-inches of water column (" w.c.) indicates that the SSDS is successfully depressurizing the building SS. The latest vacuum readings, measured on July 13, 2020, are presented on Figure 1. The vacuum readings show that vacuum measured at all SS probes meet or exceed the target vacuum of -0.004" w.c., indicating the building SS is successfully being depressurized. This finding is consistent with previous monitoring results.

GHD completed quarterly inspections of the SSDS exterior blowers and interior system components to determine if the system is working properly. Inspections completed on March 18, 2020, June 29, 2020, and September 10, 2020 indicated the SSDS is functioning normally, however vacuum readings at three extraction point blower were marginally outside the target range of -0.5 to -4.0" w.c. during the inspections.

Conclusion

The 2020 sampling results show that benzene was detected in IA samples at concentrations greater than the ODH IA screening level; however, the SS sample results indicate that the IA benzene concentrations are not due to VI. No VOCs were detected in SS samples at concentrations greater than ODH SS

¹ The ODH screening levels shown in Table 1 were calculated based on an attenuation factor (AF) equal to 10, reflective of 2002 USEPA guidance. USEPA revised and issued final VI guidance in 2015 which utilizes an AF of 33 for residential buildings; see "OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Source to Indoor Air (USEPA, June 2015) (Final Vapor Intrusion Guidance)". The use of AF=10 in the original assessment (2012) and included in Table 1 is a more conservative approach compared to the use of AF=33 based on current USEPA guidance.



screening levels. The SS soil gas vacuum readings indicate that the SSDS is effectively depressurizing the sub-slab beneath the building and addressing potential VI.

GHD plans to continue monitoring system performance (vacuum readings), and collect SS and IA samples annually every summer to ensure acceptable system operation conditions. In addition, GHD will inspect the vacuum blower operation on a quarterly basis and replace blowers as needed.

If you have questions related to the sampling or on-going site investigation, please do not hesitate to contact the undersigned.

GHD

A handwritten signature in blue ink that reads "Julian Hayward".

Julian Hayward

A handwritten signature in blue ink that reads "Valerie Chan".

Valerie Chan

BR/cb/1

Encl.

cc: Robert Thompson – USEPA Remedial Program Manager
 Tamara McPeek – Ohio EPA, Site Coordinator

LEGEND

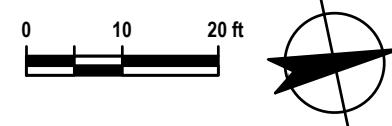
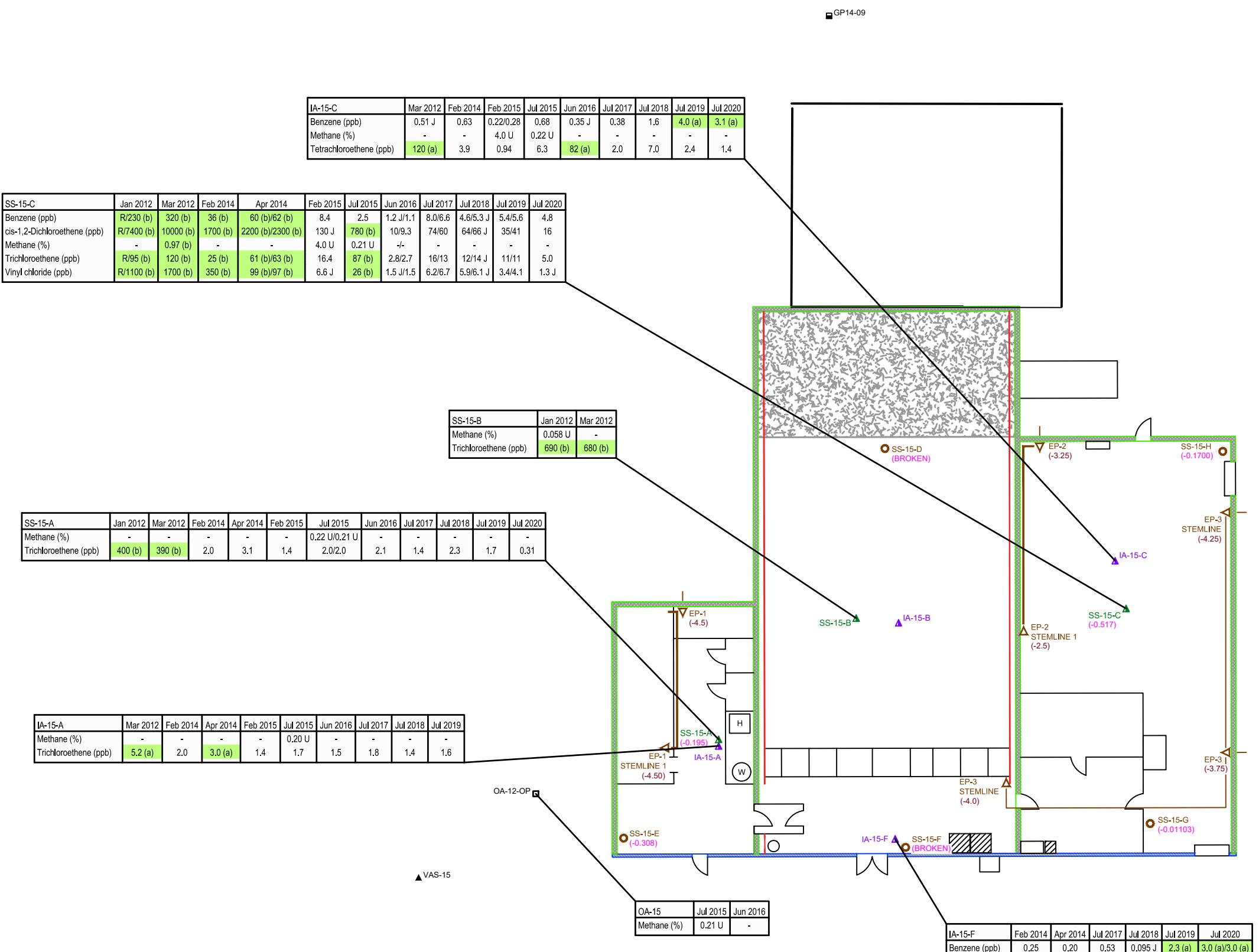
	EP-1 SUCTION POINT LOCATION
	PIPING AND FAN LOCATION
	SS-15-D COMPLIANCE POINT LOCATION
	BRICK
	CONCRETE BLOCK
	INTERIOR WALL
	HEATER
	WATER TANK
	RUBBER MULCH
	DOOR
	EXISTING SOIL VAPOR PROBE LOCATION
	EXISTING INDOOR AIR LOCATION
	OUTDOOR AIR SAMPLE LOCATION
	VAS SAMPLING LOCATION
	DEEP GAS PROBE
	SAMPLE IDENTIFICATION
	SAMPLE DATE
	SAMPLE UNITS
	CRITERIA
	CONCENTRATION
	PARAMETER

EXCEEDS SPECIFIED SCREENING LEVEL
(-0.00630) VACUUM READING AT SUB-SLAB PROBE LOCATIONS MEASURED ON JULY 13, 2020 IN INCHES OF WATER COLUMN (" W.C.)

(-1.20) VACUUM READING AT EXTRACTION POINTS MEASURED ON SEPTEMBER 10, 2020 IN INCHES OF WATER COLUMN (" W.C.)

Chemical	ODH Non-Residential Screening Levels	
	Indoor Air (a) (ppb)	Sub-Slab (b) (ppb)
Benzene	2	20
cis-1,2-Dichloroethene	37	370
Tetrachloroethylene	25	250
Trichloroethylene	2	20
Vinyl chloride	2	20

NOTE: FIELD MONITORING DATA FOR METHANE IS TABULATED SEPARATELY.



SOUTH DAYTON DUMP AND LANDFILL SITE
2031 DRYDEN ROAD, MORaine, OHIO

Project No. 11208393
Date October 2020

PARCEL NUMBER 5173, BUILDING 15

FIGURE 1

Table 1

Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020

Sample Location:	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-B	IA-15-C	
Sample ID:	IA-38443-031312-JC-175	IA-38443-021114-GL-001	IA-38443-042414-GL-002	IA-38443-021815-GL-019	IA-38443-071415-6L-016	IA-38443-061716-GL-023	IA-38443-071117-GL-020	IA-38443-072418-JC-027	IA-38443-071719-GL-020	IA-38443-031312-JC-177	IA-38443-031312-JC-179	IA-38443-031312-JC-177	IA-38443-031312-JC-179	
Date	3/13/2012	2/11/2014	4/24/2014	2/18/2015	7/14/2015	6/17/2016	7/11/2017	7/24/2018	7/17/2019	3/13/2012	3/13/2012	3/13/2012		
Parameters	Units	ODH Non-Residential Screening Levels Sub-Slab Soil Gas	Indoor Air a	Indoor Air b	Indoor Air a	Indoor Air b								
Volatile Organic Compounds														
1,1-Dichloroethane	ppbv	160	16	0.026 U	0.052 U	0.026 U	0.026 U	0.026 U	0.10 U					
Benzene	ppbv	20	2	0.46	0.29	0.23	0.16 J	0.23	0.20	0.30 J	1.8	0.51	0.51 J	
Chloroform (Trichloromethane)	ppbv	800	80	0.077 J	0.038 U	0.050 J	0.038 U	0.079 J	0.085 J	0.12 U	0.094 J	0.051 J	0.038 U	0.15 U
cis-1,2-Dichloroethene	ppbv	370	37	0.060 U	0.12 U	0.060 U	0.060 U	0.24 U						
Ethylbenzene	ppbv	2500	250	0.15 J	0.13 J	0.15 J	0.068 U	0.11 J	0.076 J	0.12 J	0.14 U	0.11 J	0.12 J	0.43 J
m&p-Xylenes	ppbv	2000	200	0.52	0.44	0.40	0.12 U	0.36	0.27	0.37	0.24 U	0.39	0.43	1.6
Naphthalene	ppbv	29	2.9	0.25 J	0.090 U	0.090 U	0.090 U	0.13 J	0.19 J	0.17 J	0.18 U	0.090 UJ	0.090 U	0.36 U
o-Xylene	ppbv	2000	200	0.21	0.17 J	0.20	0.061 U	0.15 J	0.11 J	0.15 J	0.12 U	0.16 J	0.17 J	0.62 J
Tetrachloroethene	ppbv	250	25	0.84	2.3	2.8	1.3	1.6	2.9	2.8	0.77	0.85	1.4	
Trichloroethene	ppbv	20	2	5.2 ^b	2.0	3.0 ^b	1.4	1.7	1.5	1.8	1.4	1.6	0.13 J	1.6
Vinyl chloride	ppbv	20	2	0.071 U	0.14 U	0.071 U	0.071 U	0.071 U	0.28 U					

Notes:

- D Compounds at secondary dilution factor.
- J Estimated concentration
- NJ Tentatively identified compound, estimated concentration
- R Rejected
- U Not detected at the associated reporting limit
- UJ Not detected; associated reporting limit is estimated
- 1.0 Value greater than ODH Non-Residential Screening Level

Table 1

Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020

Sample Location:	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-C	IA-15-F	IA-15-F	IA-15-F	IA-15-F
Sample ID:	IA-38443-021314-GL-005	IA-38443-021815-GL-021	SDD-IA-15C-0215	IA-38443-071415-6L-018	IA-38443-061716-GL-026	IA-38443-071117-GL-024	IA-38443-072418-JC-031	IA-38443-071719-GL-024	IA-11208393-071520-JC-023	IA-38443-021114-GL-003	IA-38443-042414-GL-003	IA-38443-071117-GL-021	IA-38443-072418-JC-032		
Date	2/13/2014	2/18/2015	2/18/2015	7/14/2015	7/14/2016	6/17/2016	7/11/2017	7/24/2018	7/17/2019	7/15/2020	2/11/2014	4/24/2014	7/11/2017	7/24/2018	
Parameters	Units														
Volatile Organic Compounds															
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.24 U	0.026 U	0.13 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	
Benzene	ppbv	0.63	0.22	0.28	0.68	0.35 J	0.38	1.6	4.0 ^b	3.1 ^b	0.25	0.20	0.53	0.095 J	
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.12 U	0.038 U	0.19 U	0.044 U	0.055 J	0.14 J	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.62 U	0.060 U	0.30 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.17 J	
Ethylbenzene	ppbv	0.39	0.17 J	0.25 U	1.2	0.58 J	0.69	0.43	1.3	1.6	0.068 U	0.076 J	0.12 J	0.068 U	
m&p-Xylenes	ppbv	1.5	0.62	0.72	5.4	2.4	3.0	1.8	5.7	6.3	0.22	0.27	0.41	0.12 U	
Naphthalene	ppbv	0.090 U	0.090 U	0.64 U	0.41 J	0.45 U	0.30 J	0.095 J	0.26 J	0.18 J	0.090 U	0.090 U	0.23 J	0.090 U	
o-Xylene	ppbv	0.46	0.20	0.27	2.1	0.96 J	1.2	0.69	2.0	2.4	0.074 J	0.10 J	0.16 J	0.061 U	
Tetrachloroethene	ppbv	3.9	0.59	0.94	6.3	82 ^b	2.0	7.0	2.4	1.4	0.45	0.053 J	0.13 J	0.50	
Trichloroethene	ppbv	0.59	0.20	0.37	1.2	0.57 J	0.86	1.4	0.42	1.1	0.076 J	0.036 U	0.052 J	0.067 J	
Vinyl chloride	ppbv	0.071 U	0.071 U	0.13 U	0.071 U	0.36 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	

Notes:

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1.0 Value greater than ODH Non-Residential Screening Level

Table 1

Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020

Sample Location:	IA-15-F IA-38443-071719-GL-021 7/17/2019	IA-15-F IA-11208393-071520-JC-021 7/15/2020	IA-15-F IA-11208393-071520-JC-022 7/15/2020 Duplicate	IA-15-H IA-38443-042414-GL-006 4/24/2014	OA-15 OA-38443-031312-JC-174 3/13/2012	OA-15 OA-38443-021114-GL-006 2/11/2014	OA-15 OA-38443-042414-GL-007 4/24/2014	OA-15 OA-38443-021815-GL-022 2/18/2015	OA-15 OA-38443-071415-6L-013 7/14/2015	OA-15 OA-38443-061716-GL-027 6/17/2016	OA-15 OA-38443-071117-GL-025 7/11/2017	OA-15 OA-38443-072418-JC-028 7/24/2018
Sample ID:												
Date												
Parameters	Units											
Volatile Organic Compounds												
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	ppbv	2.3 ^b	3.0 ^b	3.0 ^b	1.2	0.068 J	0.18 J	0.16 J	0.18 J	0.15 J	0.11 J	0.14 J
Chloroform (Trichloromethane)	ppbv	0.038 J	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	ppbv	0.16 J	0.10 J	0.11 J	1.4	0.068 U	0.068 U	0.073 J	0.068 U	0.080 J	0.068 U	0.11 J
m&p-Xylenes	ppbv	0.56	0.33 J	1.2 J	5.3	0.12 U	0.19 J	0.23	0.12 U	0.26	0.15 J	0.39
Naphthalene	ppbv	0.090 U	0.090 U	0.18 J	0.090 U							
o-Xylene	ppbv	0.21	0.13 J	0.56 J	1.8	0.061 U	0.062 J	0.088 J	0.061 U	0.086 J	0.061 U	0.14 J
Tetrachloroethylene	ppbv	0.13 J	0.67	0.60	2.9	0.040 U	0.22	0.040 U				
Trichloroethylene	ppbv	0.060 J	0.036 U	0.036 U	0.75	0.036 U	0.036 U	0.096 J	0.036 U	0.036 U	0.036 U	0.036 U
Vinyl chloride	ppbv	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

- D Compounds at secondary dilution factor.
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- 1.0 Value greater than ODH Non-Residential Screening Level

Table 1

Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020

Sample Location:	OA-15 SS-38443-071719-GL-025 7/17/2019	OA-15 SS-38443-011212-JC-074 7/15/2020	SS-15-A SS-38443-031312-JC-176 1/12/2012	SS-15-A SS-38443-021114-GL-002 3/13/2012	SS-15-A SS-38443-042414-GL-001 2/11/2014	SS-15-A SS-38443-021815-GL-018 4/24/2014	SS-15-A SS-38443-021415-6L-014 2/18/2015	SS-15-A SS-38443-071415-6L-014 7/14/2015	SS-15-A SS-38443-071415-6L-015 7/14/2015	SS-15-A SS-38443-061716-GL-022 6/17/2016	SS-15-A SS-38443-071117-GL-019 7/11/2017	SS-15-A SS-38443-072418-JC-026 7/24/2018	
Sample ID:													
Date													Duplicate
Parameters	Units												
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	0.60 U	0.93 U	0.026 U	0.026 U	0.41	0.026 U	0.026 U	0.13 U	0.026 U	0.13 U
Benzene	ppbv	0.18 J	0.21	0.31 U	2.0 U	0.31	0.11 J	0.23	0.12 J	0.12 J	0.28 U	0.24	0.34 J
Chloroform (Trichloromethane)	ppbv	0.038 U	0.038 U	0.53 U	1.4 U	0.038 U	0.045 J	0.038 U	0.065 J	0.060 J	0.19 U	0.13 U	0.19 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	2.7 J	2.1 U	0.10 J	0.060 U	0.060 U	0.060 U	0.060 U	0.30 U	0.060 U	0.30 U
Ethylbenzene	ppbv	0.068 U	0.068 J	0.38 U	2.4 U	0.22	0.068 U	0.47	0.068 U	0.068 U	0.34 U	0.12 J	0.34 U
m&p-Xylenes	ppbv	0.21	0.22	0.82 U	4.3 U	0.51	0.12 U	2.2	0.19 J	0.18 J	0.60 U	0.37	3.1
Naphthalene	ppbv	0.090 U	0.090 U	1.5 U	3.2 U	0.090 U	0.090 U	0.55	0.097 J	0.090 UJ	0.45 U	0.28 J	0.45 U
o-Xylene	ppbv	0.076 J	0.097 J	0.38 U	2.2 U	0.44	0.061 U	0.79	0.070 J	0.061 U	0.31 U	0.16 J	9.6
Tetrachloroethene	ppbv	0.11 J	0.040 U	7.6	7.1	1.5	1.2	0.83	2.4	2.4	3.1	2.2	1.7
Trichloroethene	ppbv	0.036 U	0.036 U	400 ^a	390 ^a	2.0	3.1	1.4	2.0	2.0	2.1	1.4	2.3
Vinyl chloride	ppbv	0.071 U	0.071 U	0.50 U	2.5 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.36 U	0.071 U	0.35 U

Notes:

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- 1.0** Value greater than ODH Non-Residential Screening Level

Table 1

Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020

Sample Location:	SS-15-A SS-38443-071719-GL-019	SS-15-A SS-11208393-071520-JC-020	SS-15-B SS-38443-011212-JC-071	SS-15-B SS-38443-031312-JC-178	SS-15-C SS-38443-011212-JC-072	SS-15-C SS-38443-011212-JC-073	SS-15-C SS-38443-031312-JC-180	SS-15-C SS-38443-021314-GL-004	SS-15-C SS-38443-042414-GL-004	SS-15-C SS-38443-042414-GL-005	SS-15-C SDD-SS-15C-0215	SS-15-C SS-38443-021815-GL-020	
Sample ID:													
Date	7/17/2019	7/15/2020	1/12/2012	3/13/2012	1/12/2012	1/12/2012	3/13/2012	2/13/2014	4/24/2014	4/24/2014	4/24/2014	2/18/2015	
Parameters	Units												
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	0.026 U	0.026 U	1.1 U	1.2 U	R	8.8 U	14 U	2.8 U	3.0 U	3.1 U	0.27 U	0.10 U
Benzene	ppbv	1.5	1.6	0.55 U	2.6 U	R	230 ^a	320 ^a	36 ^a	60 ^a	62 ^a	8.4	5.9 J
Chloroform (Trichloromethane)	ppbv	0.049 J	0.079 J	8.5	12	R	7.8 U	20 U	4.1 U	4.4 U	4.6 U	0.13 U	0.15 U
cis-1,2-Dichloroethene	ppbv	0.060 U	0.060 U	86	130	R	7400 ^a	10000 ^a	1700 ^a	2200 ^a	2300 ^a	125	130 J
Ethylbenzene	ppbv	0.15 J	0.15 J	0.67 U	3.2 U	R	320	540	70	180	180	8.5	5.8 J
m&p-Xylenes	ppbv	0.45	0.44	1.5 U	5.6 U	R	820	1300	130	410	410	6	4.0 J
Naphthalene	ppbv	0.090 U	0.10 J	2.6 U	4.2 U	R	22 U	47 U	9.7 U	10 U	11 U	0.68 U	0.36 U
o-Xylene	ppbv	0.18 J	0.18 J	0.67 U	2.9 U	R	710	1100	170	400	400	34	33 J
Tetrachloroethylene	ppbv	0.57	1.9	1.3 J	2.5 J	R	2.8 U	21 U	4.3 U	4.6 U	4.8 U	3.2	2.5 J
Trichloroethene	ppbv	1.7	0.31	690 ^a	680 ^a	R	95 ^a	120 ^a	25 ^a	61 ^a	62 ^a	16.4	12 J
Vinyl chloride	ppbv	0.071 U	0.071 U	0.88 U	3.3 U	R	1100 ^a	1700 ^a	350 ^a	99 ^a	97 ^a	0.13 U	6.6 J

Notes:

- D Compounds at secondary dilution factor.
- J Estimated concentration
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- 1.0** Value greater than ODH Non-Residential Screening Level

Table 1

Summary of Building 15 -SIM Trainer Analytical Results
South Dayton Dump and Landfill Site
Moraine, Ohio
2012-2020

Sample Location:	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C
Sample ID:	SDD-SS-15C-0715	SS-38443-071415-6L-017	SS-38443-061716-GL-024	SS-38443-061716-GL-025	SS-38443-071117-GL-022	SS-38443-071117-GL-023	SS-38443-072418-JC-029	SS-38443-072418-JC-030	SS-38443-071719-GL-022	SS-38443-071719-GL-023	SS-11208393-071520-JC-019	SS-11208393-071520-JC-019	
Date	7/14/2015	7/14/2015	6/17/2016	6/17/2016	Duplicate	7/11/2017	7/11/2017	Duplicate	7/24/2018	7/24/2018	7/17/2019	7/17/2019	
Parameters	Units												
Volatile Organic Compounds													
1,1-Dichloroethane	ppbv	1.2 U	0.28 U	0.26 U	0.13 U	0.30 U	0.17 U	0.26 U	0.13 U	0.13 U	0.26 U	0.21 U	
Benzene	ppbv	1.6 U	2.5	1.2 J	1.1	8.0	6.6	4.6	5.3 J	5.4	5.6	4.8	
Chloroform (Trichloromethane)	ppbv	1.0 U	0.71 J	0.38 U	0.19 U	0.44 U	0.25 U	0.38 U	0.21 J	0.20 J	0.38 U	0.31 U	
cis-1,2-Dichloroethene	ppbv	480 D ^a	780 ^a	10	9.3	74	60	64	66 J	35	41	16	
Ethylbenzene	ppbv	1.1 U	0.78 J	1.1 J	1.1	19	15	7.0 J	12 J	11	12	5.5	
m&p-Xylenes	ppbv	2.3 U	1.3 U	4.0	3.7	61	51	24 J	43 J	44	46	18	
Naphthalene	ppbv	0.95 U	0.95 UJ	0.90 U	0.45 U	2.6 J	2.1 J	2.5 J	3.4 J	0.64 J	0.90 U	1.5 J	
o-Xylene	ppbv	1.5	3.1	3.6	3.7	65	54	27 J	47 J	45	45	21	
Tetrachloroethene	ppbv	21	28	100	100	4.6	3.3	1.6 U	1.3 J	4.2	4.8	4.5	
Trichloroethene	ppbv	72 ^a	87 ^a	2.8	2.7	16	13	12	14 J	11	11	5.0	
Vinyl chloride	ppbv	17	26 ^a	1.5 J	1.5	6.2	6.7	5.9	6.1 J	3.4	4.1	1.3 J	

Notes:

- D Compounds at secondary dilution factor.
- J Estimated concentration
- NJ Tentatively identified compound, estimated concentration
- R Rejected
- U Not detected at the associated reporting limit
- UJ Not detected; associated reporting limit is estimated
- 1.0 Value greater than ODH Non-Residential Screening Level